

FIGURE 1

mAb	Mean Fluorescence Intensity		% Gated	
	L1.2-CCR5	PBMC	L1.2-CCR5	PBMC
mouse IgG1	10	4	1	1
2D7	75	29	92	36
PA8	48	9	73	3
PA9	79	5	96	3
PA10	80	8	96	5
PA11	107	8	96	10
PA12	115	8	96	8
PA14	81	14	96	22

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FIGURE 2

INHIBITOR COMBINATION	CONCENTRATION RATIO	ASSAY	COMBINATION INDEX	
			90% Inhibition	50% Inhibition
PA12:2D7	10:1	Entry	0.043	0.291
	2:1	Fusion	0.017	0.019
	10:1	Fusion	0.087	0.067
	50:1	Fusion	0.158	0.046
PA12:PA14	10:1	Entry	0.437	0.535
	10:1	Fusion	0.22	0.263
PA14:2D7	1:1	Entry	2.85	1.85
	1:1	Fusion	1.34	1.74
PA12:PA11	1:1	Entry	0.707	0.641
PA12:RANTES	1000:1	Fusion	0.331	0.156
PA14:RANTES	100:1	Fusion	1.6	1.37
2D7:RANTES	100:1	Fusion	0.972	0.962
PA12:CD4-IgG2	10:1	Fusion	0.3	0.31
PA14:CD4-IgG2	1:1	Fusion	0.957	0.566
2D7:CD4-IgG2	1:1	Fusion	1.127	0.302

FIGURE 3

	Epitopes	IC ₅₀ values (μg/ml)			
		cell-cell fusion inhibition	viral entry inhibition	gp120-binding inhibition	calcium flux inhibition
PA8	Nt	-	-	-	-
PA9	Nt/ECL2	-	-	0.24	-
PA10	Nt/ECL2	-	-	0.13	-
PA11	Nt	25.5	-	0.33	-
PA12	Nt	10.0	-	0.24	-
PA14	Nt/ECL2	1.7	.024	1.58	6.4
2D7	ECL2	1.6	.026	1.38	45

FIGURE 4

	1	5	10	15	20	25	30
M D Y Q V S S P I Y D I N Y Y T S E P C Q K I N K Q I A A R	92 54 90 nd 83 63 82 nd 46 40 40 90 90 86 111 49 37 45 44 37 52 27 92 65	118 63 78 nd 52 36 32 nd 4 2 0 53 7 45 100 47 32 36 44 37 34 24 134 36	16 13 0 nd 313 9 13 nd 10 0 19 62 52 29 71 36 32 36 45 30 55 18 143 40	21 14 0 nd 115 59 22 nd 14 8 15 101 48 99 94 27 97 45 45 39 53 13 133 46	70 32 0 nd 112 80 81 nd 40 22 51 74 70 46 85 32 47 36 48 40 47 22 146 64	68 30 0 nd 76 81 51 nd 34 12 49 76 68 40 86 30 41 49 46 34 54 12 93 43	9 86 75 nd 85 88 89 nd 57 40 64 78 84 66 76 80 71 44 86 64 76 46 99 23
2D7	PA8	PA9	PA10	PA11	PA12	PA14	

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	H	Y	A	A	A	Q	W	D	F	G	N	T	M	C	Q
2D7	70	89				40	136	40	66		58	72	82	0	74
PA8	38	92				49	118	32	115		96	86	68	10	39
PA9	31	66				27	81	16	139		118	89	57	0	43
PA10	67	83				36	139	18	133		112	97	61	0	40
PA11	59	81				38	91	25	78		60	94	71	10	60
PA12	63	67				35	91	29	77		76	79	102	25	55
PA14	73	79				63	83	23	86		47	89	80	8	77

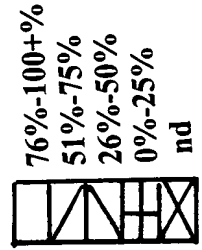
ECL1

	170										175										180										185										190									
	R	S	Q	K	E	G	L	H	Y	T	C	S	S	H	F	P	Y	S	Q	Y	Q	F	W	K	N	F	Q																							
2D7	62	55	17	0					62	64	65	0	83	95	31	32	80	92	71	42	34	71	39																											
PA8	38	40	58		31				65	43	63	26	90	100	51	41	46	90	68	74	58	38	95	33																										
PA9	39	28	63		15				34	73	0	25	93	112	27	43	27	79	63	71	74	13	51	38																										
PA10	45	59	34		19				30	21	0	25	84	96	32	61	39	77	82	51	68	16	38	45																										
PA11	67	58	45		13				49	118	130	37	78	95	40	48	38	91	99	81	34	44	71	47																										
PA12	52	56	36		31				52	102	136	50	73	85	44	49	42	101	90	45	56	23	66	37																										
PA14	1	85	88		59				80	74	72	9	109	83	52	64	30	40	93	88	65	34	79	55																										

ECL2

	265										270										275																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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ECL3



[illegible]

IN

	H	Y	A	A	A	Q	W	D	F	G	N	T	M	C	Q
2D7	89					49	130	90	60				82	0	77
PA8	92					49	118	92	115		96	86	93	10	49
PA9	91					27	81	16	159		138	89	59	0	49
PA10	83					35	139	18	133		112	97	59	0	40
PA11	81					38	91	25	78		96	94	77	10	40
PA12	87					35	91	48	77		78	79	102	25	35
PA14	79					62	83	23	88		43	89	80	8	67

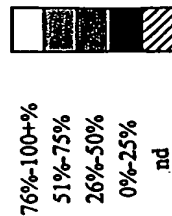
ECL 1

	170					175					180					185					190					
	R	S	Q	K	E	G	L	H	Y	T	C	S	H	F	P	Y	S	Q	Y	Q	F	W	K	N	F	Q
2D7	22	25	17	0				22	24	25	7	83	95	22	22	80	92	22	49	24	22	28	28	28	45	102
PA8	36	46	50	50				35	48	50	98	90	100	41	14	90	98	74	39	38	85	34	46	28	22	
PA9	36	26	25	15				37	32	0	25	83	112	45	27	78	95	75	71	13	51	28	12	34	53	
PA10	16	39	31	19				36	21	0	25	84	98	37	38	77	82	35	32	16	39	15	16	35	78	
PA11	37	38	45	5				41	138	130	37	78	95	48	38	91	99	91	53	24	74	36	23	46	92	
PA12	52	55	55					52	102	138	59	73	85	44	46	101	90	35	23	46	37	28	28	55	76	
PA14	11	85	88					80	24	22	9	109	83	57	32	10	83	88	46	28	78	16	36	74	28	

ECL 2

[illegible]

ECL 3



1. The first group of people who are interested in the study of the history of the world are the historians. They are people who study the past and try to understand what happened and why it happened. They use many different sources of information, such as books, documents, and artifacts, to reconstruct the past.

FIGURE 5A

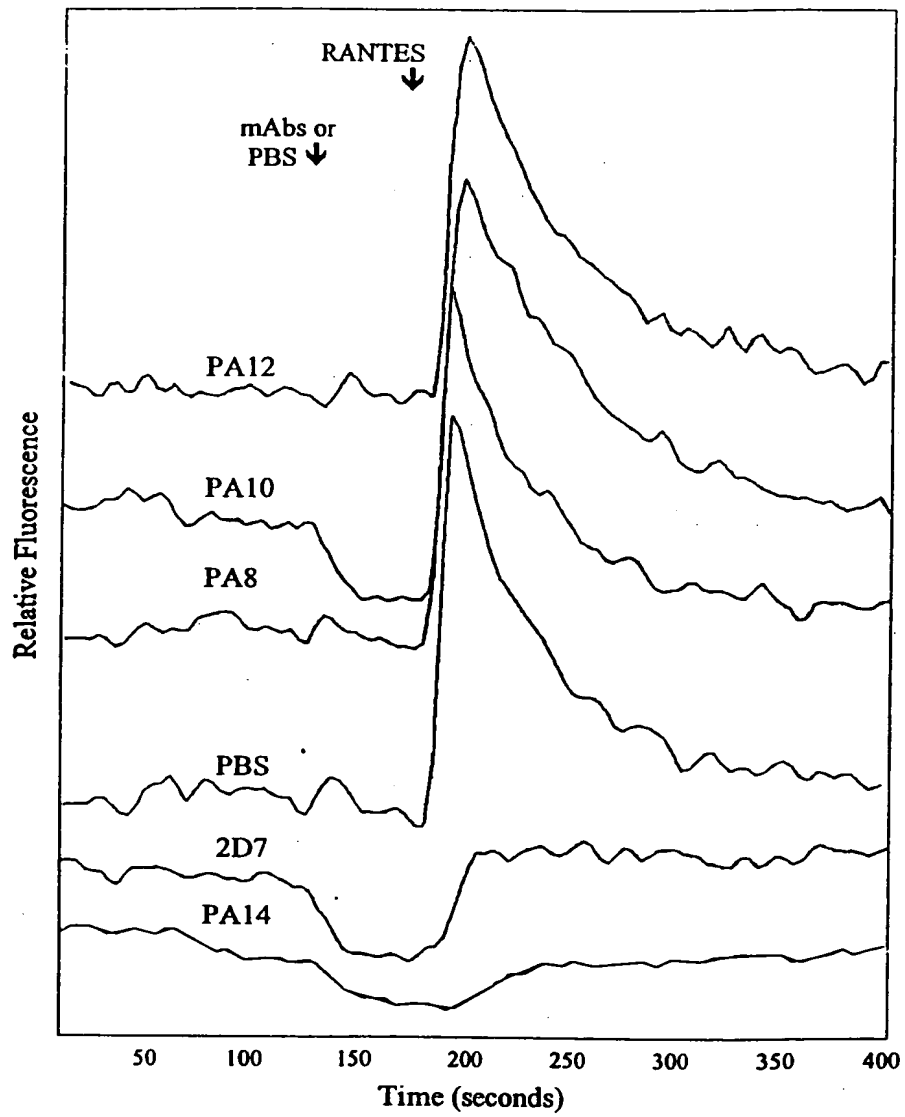
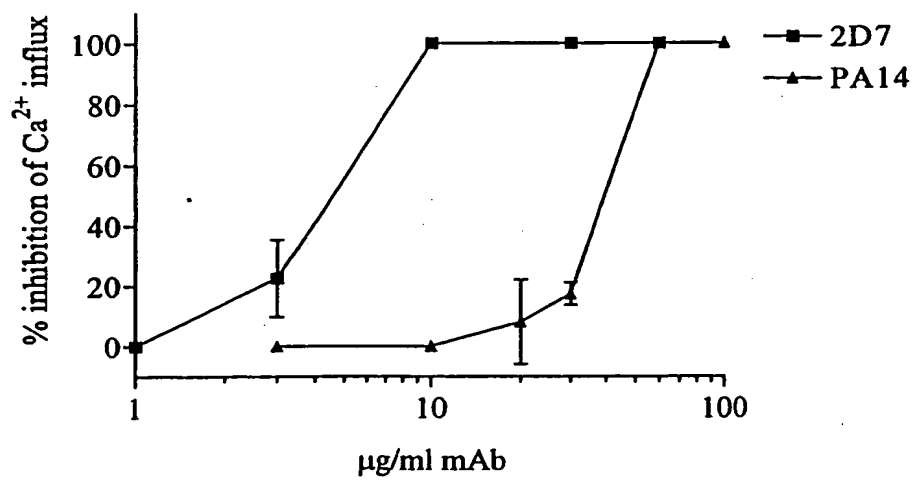


FIGURE 5B



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FIGURE 6A

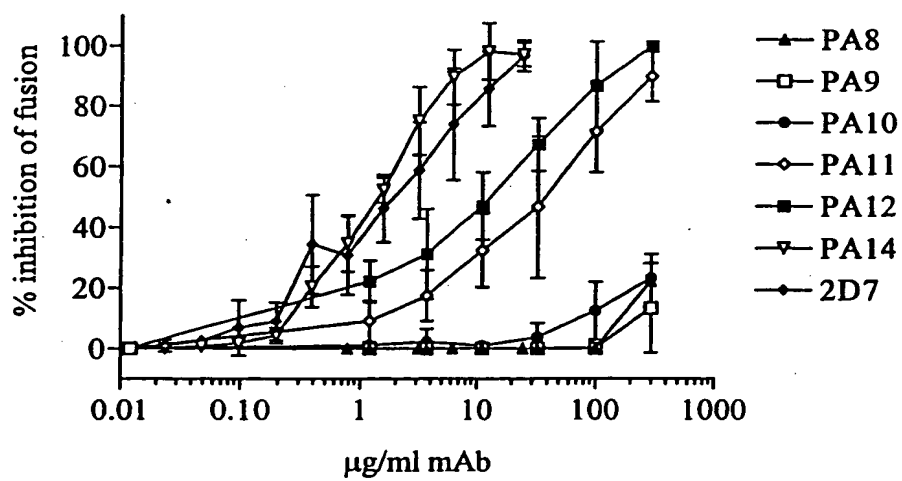
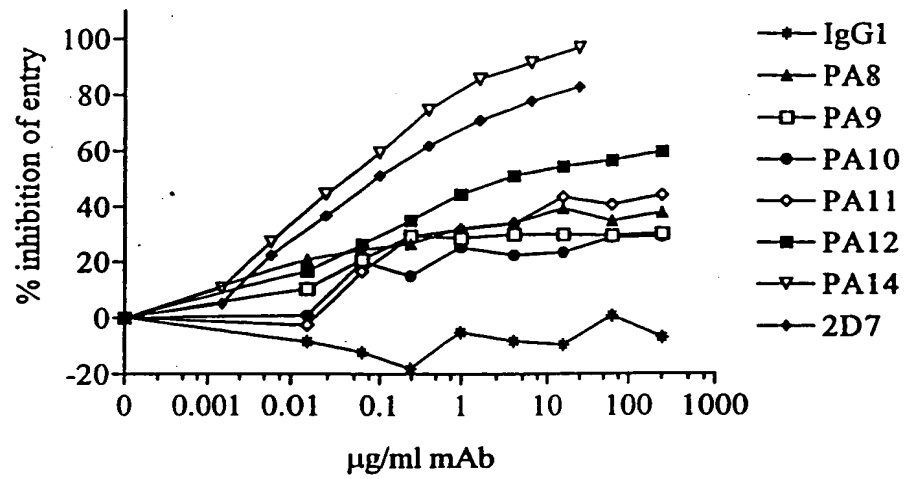


FIGURE 6B



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FIGURE 6C

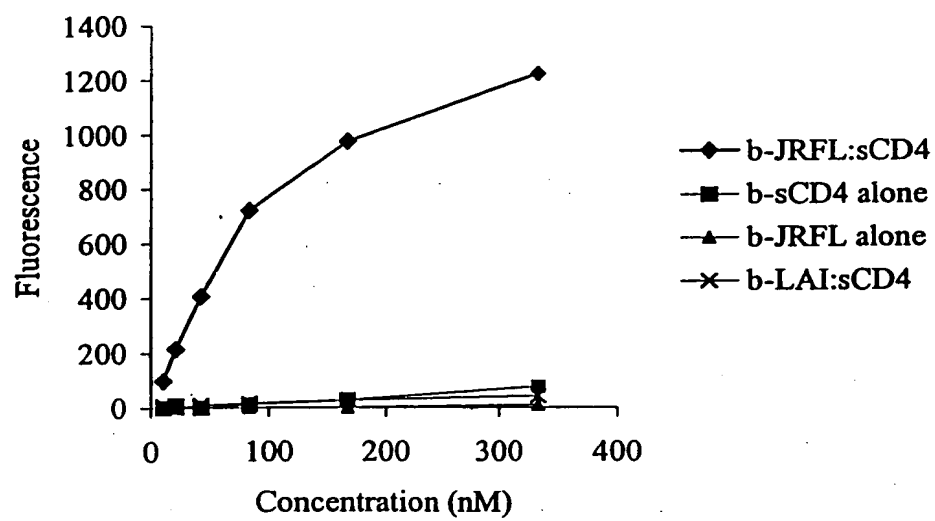
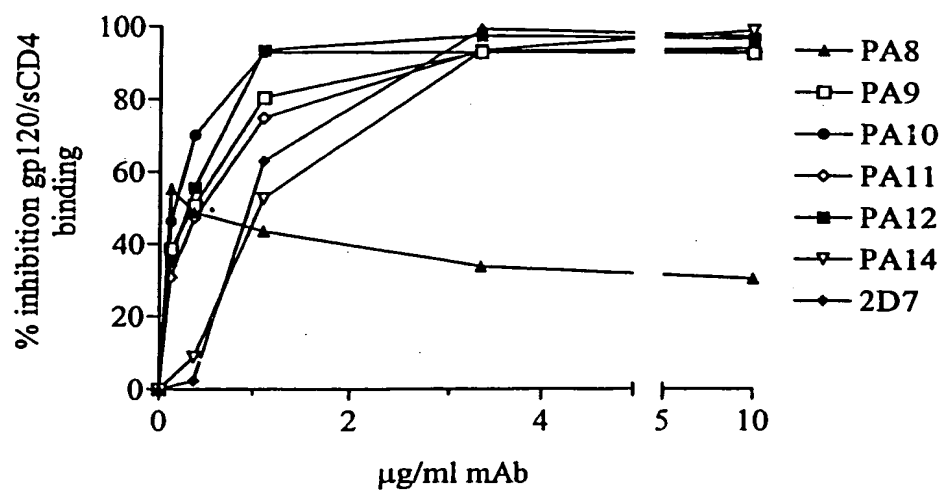


FIGURE 6D



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FIGURE 7

